

ABSTRACT OF THE DISCLOSURE

A data reader and method for data reading, such as a barcode scanner, wherein the scan pattern generating optics and other features are optimized for different modes of operation. In a preferred embodiment, different patterns are projected from different apertures in the scanner housing, one scan pattern optimized for handheld operation and the other optimized for fixed operation. Other optimizable features include the presence or absence of an aiming beam, which may be generated from the same laser source as the scan pattern or from another source, and enabling or disabling decoding of the signal received signal during a portion of a facet wheel rotation. Decoding may be disabled while the scan line(s) for handheld use is generated unless a switch or trigger is actuated.